

FROM: ABC/BOV

11 FEB 1980

SUBJECT: User Inputs to the DSP PAR

TO: ABC/XPD

1. This letter is in response to your 7 Jan 80 request, subject same as above.

2. ADCOM is concerned that the SPS mission performance still does not meet system specifications for false missile launch reports. The formal IOT&E and POT&E resulted in unsatisfactory performance. As a result, the SPS still has not attained an Initial Operational Capability. Specific problem areas are:

- a. The SPS FLA Report rate exceeds system specification.
- b. The SPS MSE Report rate exceeds system specification.
- c. The SPS false **b1** Report rate exceeds system specification.

3. In addition, two significant mission software limitations have been identified. Software modifications are underway; however, they have not been verified in the operational environment. The two impacting mission software limitations are:

- a. The SPS fails to correctly type missile launches within system specifications.

- b. The SPS fails to stop false **b1** Reports from being generated when certain types of NUMSIS are detected.

4. The demonstrated performance of the SPS indicates that the fully automatic design of this system is suspect. Furthermore, the procurement strategy for the MCT, using SPS technology as the baseline for MCT development, should be reexamined.

5. ADCOM is concerned over the degradation of DSP Flight 6. **b1**

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motor anomaly; degraded star sensors; and intermittent failure of the B Receiver string indicate that this on-orbit resource should be replaced within the next available launch support period. The status of Titan III-C boosters, launch pad availability, and replacement satellite availability dictates that DSP Flight 9 be launched during the timeframe of Sept 1980 - Feb 1981.

6. The degradation of the star sensors on Flight 6 and 2, the eastern hemisphere back-up satellite, is of increasing concern. ADCOM recommends that SD begin an investigation of the thermal and mechanical design of star sensors, to ensure that future satellites are not subject to star sensor failures because of a design limitation.

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8. Point of contact in DOWD is Capt Nelson, 3309.

SIGNED

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